

# ABSTRACT

The present invention provides a system and method to efficiently round real numbers. The system includes a rounding apparatus to accept an input value that is a real number represented in floating-point format, and to perform a  
5 rounding operation on the input value to generate an output value that is an integer represented in floating-point format. The system also includes a memory to store a computer program that utilizes the rounding apparatus. The system further includes a central processing unit (CPU) to execute the computer program. The CPU is cooperatively connected to the rounding apparatus and  
10 the memory.